JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA

VOLUME 46 (1988)

Author Index

Abbati, I. *c*7
Aebi, P. 191
Andersen, J.N. 227
Andersson, C. 85
Ando, Y. 277
Ardehali, M. 215
Ashley, J.C. 199

Baer, Y. 303
Bertel, E. 373
Bigelow, R.W. 1
Boerrigter, P.M. 43
Borod'ko, Yu.G. 145
Braicovich, L. *c*7
Buonaquisti, A.D. 277

Carroll, T.X. 249
di Castro, V. 111, 297
Cauletti, C. 405
Chandra, S. 325
Chehimi, M.M. *c*1, 427
Chuvaev, A.V. 381
Cozza, C. 111, 297
Currie, J.F. 173

D'Agostino, A.T. 155
Delamar, M. *c*1, 427
Dyke, J.M. 43

Erbudak, M. 191

Ferragina, C. 285
Folkesson, B. 19, 85
Freund, H.-J. 1
Fritsche, K. 179
Furlani, C. 297

Ginestra, A. La 285

Hallmeier, K.H. 179
Hansen, W.N. 155
Hengyuan, L. 363
Hill, J.O. 315
Hitchcock, A.P. 55
Hughes, A.E. 31
Huschka, W. 273

Imer, J.-M. 303
Ishida, M. 277
Ishii, I. 55

Jablonski, A. 131
James, B.D. 325
Jansson, C. 227
Jianqi, W. 363

Khristenko, S.V. 145
Kishi, K. 237
Kojima, I. 185
Kostorz, G. 191
Krawczyk, M. 131
Kreile, J. 405
Kurahashi, M. 185
Kurland, H.-D. 405

van der Laan, G. 123
Larsson, R. 19, 85
Law, K.-Y. 1
Lesiak, B. 131
Liesegang, J. 315, 325
Lindau, I. *c*7, 215

Magee, R.J. 325
Maier, M. 273
Massucci, M.A. 285
Mattogno, G. 285
Meisel, A. 179
Mikhailov, G.M. 145
Minxiu, Z. 363

Nefedov, V.I. 255, 381, 405
Netzer, F.P. 373
Nyulászi, L. 269

Ohno, M. 165
Onsgaard, J. 227

Pan, D.H.-K. 1
Patrono, P. 285
Patthey, F. 303
Polzonetti, G. 111, 297
Puliti, C. 405
Puppin, E. *c*7

Quarles, C.A. 349

Reich, T. 255
Richter, H.-J. 179

Roe, S.P. 315
Rosenberg, N. 331
Rosina, G. 373
Ross, D. 273

Saalfeld, H.B. 373
Sacher, E. 173
Sacher, L. 103
Sakai, Y. 277
Salehkoutahi, S. 349
Sato, T. 277
Schneider, W. 179
Schneider, W.-D. 303
Schweig, A. 405
Sekine, T. 277
Selvam, P. 357
Sexton, B.A. 31
Siggel, M.R.F. 249
Snijders, J.G. 43
Srinivasan, V. 357
Sundberg, P. 19, 85
Szuber, J. 419

Thole, B.T. 123
Tholomier, M. 331
Thomas, T.D. 249
Trishkina, E.M. 381

Umbach, E. 273

Vanini, F. 191
Väyrynen, I.J. 93
Végh, J. 411
Veszprémi, T. 269
Vetchinkin, S.I. 145
Vicario, E. 331
Viswanathan, B. 357

Wenhui, W. 363

Yarzhemski, V.G. 255, 381

Zimont, S.L. 145
Zsombok, G. 269

JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA

VOLUME 46 (1988)

Subject Index

aluminum-excited spectra
electron spectrometer calibration. Consistency between magnesium- and aluminum-excited spectra 249
anisotropy
anisotropy of Auger processes in monocrystalline graphite 145
Auger electron spectra
many-body effects in L_2MM Auger electron spectra of $Ge(CH_3)_4$ excited by Mg $K\alpha$ X-rays 93
Auger electron spectroscopy
background removal in Auger electron spectroscopy: a new experimental approach 331
Auger electron spectroscopy
quantitative analysis of Auger electron spectroscopy by curve synthesis method based on non-linear least-squares fitting 185
Auger spectra
binding energy correlations in lanthanide 4*d* Auger spectra and autoionization spectra 103
autoionization
angular dependent photoelectric yield. Measurement of the La3*d* Auger and autoionization life time widths 123
autoionization spectra
binding energy correlations in lanthanide 4*d* Auger spectra and autoionization spectra 103

bis(diamine)–copper(II) complexes
an X-ray photoelectron spectroscopic study of some bis(diamine)–copper(II) complexes 315
bis(4-dimethylaminophenyl)squaraine
charge-transfer shake-up satallites accompanying core ionization in organic donor/acceptor molecules: bis(4-dimethylaminophenyl) squaraine and its derivatives 1
boron detection
influence of the matrix on boron detection by Auger electron spectroscopy (AES) 131

carbon
on the core electron binding energy of carbon and the effective charge of the carbon atom 19
carbonyl complexes
on the XPS spectra of some carbonyl complexes and the effective charge of the metal and ligand atoms 85
cerium
4*d*-threshold effects in the elastic electron scattering spectra of lanthanum and cerium 227
$CFCl_3$
HeI asymmetry parameters and partial photoionization cross-sections of $CFCl_3$ 405
charge screening
core level spectroscopies of light rare-earth metals and insulators: single-impurity parameters, relative energy scales and charge screening 303
chlorine
additivity of *K* X-ray yield of chlorine in $CHClF_2$, CCl_2F_2, $C_2Cl_2F_4$ and CCl_3F 349
chlorothiophenes
systematic HeI UPS study of chlorothiophenes 269
Cooper minimum
solid-state effects on the asymmetry parameter and on the partial photoionization cross section of Ag4*d* valence-band at the Cooper minimum 215
core level binding energy
shift in core level binding energy in double-layer species on potentiostatically emersed electrodes 155
core levels
calibrated binding energies of some core levels in the energy range between 1.5–4 keV 273
Cu films
thin Cu films on manganese: AES and photoemission, by synchrotron radiation, investigations 111
Cu growth
AES and photoemission studies of Cu growth on Cr_2O_3 297

curve fitting
curve fitting XPS spectra 31
curve synthesis method
quantitative analysis of Auger electron spectroscopy by curve synthesis method based on non-linear least-squares fitting 185
cyclopentadienyl
UV photoelectron spectra of adsorbed cyclopentadienyl 373

double-layer species
shift in core level binding energy in double-layer species on potentiostatically emersed electrodes 155

effective atomic charge
determination of effective atomic charge, extra-atomic relaxation and Madelung energy in chemical compounds on the basis of X-ray photoelectron and Auger transition energies 381
electronegativity series
a comparison of electronegativity series 173
ethylenediamine
adsorption of ethylenediamine on clean and oxygen covered Fe/Ni(100) surfaces studied by XPS 237
extra-atomic relaxation
determination of effective atomic charge, extra-atomic relaxation and Madelung energy in chemical compounds on the basis of X-ray photoelectron and Auger transition energies 381

Fe/Ni(100) surfaces
adsorption of ethylenediamine on clean and oxygen covered Fe/Ni(100) surfaces studied by XPS 237

GaAs(100) surfaces
electronic properties of clean and oxygen exposed GaAs(100) surfaces 419
graphite
anisotropy of Auger processes in monocrystalline graphite 145

inelastic mean free path
calculation of the inelastic mean free path of photoelectrons in some solids 255
inelastic mean free paths
interaction of low-energy electrons with condensed matter: Stopping powers and inelastic mean free paths from optical data 199
interlayer complex formation
X-ray photoelectron spectroscopic evidence of interlayer complex formation between Co(II) and N-heterocyclics in α-$Zr(HPO_4)_2 \cdot H_2O$ 285

krypton
many-body calculation of the 3*p*–3*d* X-ray emission spectrum of krypton 165

lanthanum
4*d*-threshold effects in the elastic electron scattering spectra of lanthanum and cerium 227
$L_{2,3}$ core edges
structures near the $L_{2,3}$ core edges of clean and oxygen covered Si(111) studied with low-energy electrons 191
L_2MM Auger electron spectra
many-body effects in L_2MM Auger electron spectra of $Ge(CH_3)_4$ excited by Mg $K\alpha$ X-rays 93

Madelung energy
determination of effective atomic charge, extra-atomic relaxation and Madelung energy in chemical compounds on the basis of X-ray photoelectron and Auger transition energies 381
magnesium-excited spectra
electron spectrometer calibration. Consistency between magnesium- and aluminum-excited spectra 249
manganese dioxide
characterization of electrode materials based on manganese dioxide by X-ray and photoelectron spectroscopy 179
many-body calculation
many-body calculation of the 3*p*–3*d* X-ray emission spectrum of krypton 165
merocyanine 540 dye
X-ray photoelectron spectroscopy of merocyanine dyes. Part IV. Correlation of O1*s* binding energy with atomic charge calculated by Smyth's method. Application to the merocyanine 540 dye *c*1
merocyanine dyes
X-ray photoelectron spectroscopy of merocyanine dyes. VI. shake up satellites in the nitro N1*s* spectra of some nitromerocyanine dyes 427

Mg_2NiH_4
X-ray photoelectron spectroscopic, electrical and magnetic studies on Mg_2NiH_4 357

nitromerocyanine dyes
X-ray photoelectron spectroscopy of merocyanine dyes. VI. shake up satellites in the nitro N1*s* spectra of some nitromerocyanine dyes 427

organic acids
the oscillator strengths for C1*s* and O1*s* excitation of some saturated and unsaturated organic alcohols, acids and esters 55

organic alcohols
the oscillator strengths for C1*s* and O1*s* excitation of some saturated and unsaturated organic alcohols, acids and esters 55

organic esters
the oscillator strengths for C1*s* and O1*s* excitation of some saturated and unsaturated organic alcohols, acids and esters 55

organotin compounds
X-ray photoelectron spectroscopic studies on some organotin compounds 325

polynitro-aminobenzenes
XPS-investigation of intramolecular charge transfer in polynitro-aminobenzenes 363

relative energy scales
core level spectroscopies of light rare-earth metals and insulators: single-impurity parameters, relative energy scales and charge screening 303

scanning Auger microanalysis
an automated specimen stage drive system for scanning Auger microanalysis 277

Shirley-type background
the analytical form of the Shirley-type background 411

Si(111)
structures near the $L_{2,3}$ core edges of clean and oxygen covered Si(111) studied with low-energy electrons 191

single-impurity parameters
core levels spectroscopies of light rare-earth metals and insulators: single-impurity parameters, relative energy scales and charge screening 303

solid state effects
lack of solid state effects in the Cr3*d* photoionization cross section *c*7

stopping powers
interaction of low-energy electrons with condensed matter: Stopping powers and inelastic mean free paths from optical data 199

$ThCl_4$
a reassignment of the gas-phase photoelectron spectra of the actinide tetrahalides UF_4, UCl_4, ThF_4 and $ThCl_4$ by relativistic Hartree–Fock–Slater calculations 43

ThF_4
a reassignment of the gas-phase photoelectron spectra of the actinide tetrahalides UF_4, UCl_4, ThF_4 and $ThCl_4$ by relativistic Hartree–Fock–Slater calculations 43

UCl_4
a reassignment of the gas-phase photoelectron spectra of the actinide tetrahalides UF_4, UCl_4, ThF_4 and $ThCl_4$ by relativistic Hartree–Fock–Slater calculations 43

UF_4
a reassignment of the gas-phase photoelectron spectra of the actinide tetrahalides UF_4, UCl_4, ThF_4 and $ThCl_4$ by relativistic Hartree–Fock–Slater calculations 43